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Philadelphia Dispensary, Fourth, Fifth and Sixth months, 1839. By Joseph Warrington, M. D., Accouchuer.

Seventeen women have been delivered at full time, one at about 8 months, and one at about 41 months of gestation, making 19 cases which have been under the care of the institution since last

Ten boys and nine girls have been born during this time, one woman having twin boys. The sex of the abortion was not noted. In twelve cases, in which the position of the fœtus was carefully observed, four presented in the first, six in the second, and two in the fourth position of the vertex. The twins presented, the first in the fourth, and the second in the second position.

The average duration of labour in twelve cases was four hours and twenty minutes, the extremes

being two and twelve hours.

The average time required for the spontaneous expulsion of the placenta in eight cases was 16 minutes, the extremes being two and thirty mi-

In two other cases it was necessary to introduce the hand partially into the uterus; in one of them for the purpose of dilating the os uteri which had contracted upon the placenta; and in the other for the separation of a portion of the placenta and membranes which were adherent to the parieties of the uterus. The placenta when removed, was found studded with numerous points of ossification. The child, however, was well developed, and the mother recovered without accident.

The subject of labour at eight months was in the last stages of pulmonary consumption, and in a state of extreme prostration when contractions of the uterus came on and expelled the child without any marked effort on the part of the mother, who died eight days after; the lacteal secretion not having taken place.

One patient who had a very easy labour was attacked with metritis the third day after delivery. The affection was promptly removed by free, repeated bleeding from the arm, saline cathartics, fomentations to the hypogastrium and mucilaginous injections into the vagina. She was convalescent on the 5th day after the attack.

The children have all done well.

Dr. Boyer, of the North Middle District, states that while attending M. H., he was consulted by his wife, a tall, large woman, of sanguine temperament, who described herself as being seven months pregnant. She had at that time a vaginal hæmorrhage of several days duration. The discharge, she said, was fluid, and persisted in stating it at a pint per diem. It was attended sible. No. 55.

Quarterly Report of the Obstetric Practice in the with pain, increased by exertion, headach, flushed countenance, full pulse, but no decided heat of skin. She had had more or less hæmorrhage in all her previous pregnancies, and also at an earlier period of this,-had not had a living child for six years, but had aborted several times at an early stage of gestation, during the three years succeeding the birth of her last child. She was vague in the account of her labours, but recollected that she had once been delivered by turning. Subsequently to her last abortion, she was treated for some uterine affection, by leeches and cauterization, and had never regained her health, though she menstruated with regularity for some time previously to her present pregnancy. Directed vss., opiates and astringents in combination, and rest. Rest, owing to circumstances, was only observed when the copiousness of the discharge created alarm, and then never more than 12 hours at a time. The hæmorrhage continued variably for two weeks—seldom abundant as beforementioned, and sometimes absent for a whole day, and finally subsided. Thinking herself in labour, a week or more afterwards I was sent for, and found the os uteri undeveloped, the lips thicker and firmer than natural, and a nipple-like prominency on one lip, while the other gave to the finger the sensation of a depression, with ragged edges and a surface wanting in natural smooth-The same characters were recognised at a subsequent examination, on a like occasion, early in June. She was delivered by the natural efforts of a large child. The labour was in nothing remarkable, though somewhat prolonged.

This case was not one of those very rare ones of menstruation during pregnancy, since it occurred at only two periods, and was then continued too long for that function. It is probable, though not demonstrable, that it was not from the placenta, but was from an ulcer on the lip of The mother seemed benefited by the os uteri. the loss of blood, and the size of the child proved

that it was not injured by it.

FOREIGN CORRESPONDENCE.

EXPLANATION FROM DR. HARLAN.

To the Editors of the Medical Examiner.

LIBRARY OF THE INSTITUTE, Paris, May 27th, 1839.

I hasten to correct an error which occurs in my last letter, describing M. Magendie's discovery on the nervous functions, which ought to have been thus rendered into English:

"The sensitive and motor nerves of the spine, when both remain untouched, are equally sennerves immediately lose their sensibility.

"If we cut through the middle of the motor nerves, the end which remains attached to the spinal marrow is altogether insensible; the opposite end preserves, on the contrary, an extreme sensibility. In this case sensibility departs from the circumference to the centre.

"If we cut the sensitive nerves at their middle part, the end attached to the spinal marrow is very sensible; the end attached to the ganglion, on the contrary, has lost all sensibility."

M. Magendie proposes to determine if this influence of the sensitive nerves upon the motor nerves be maintained in the spinal marrow between the various fasciculi which compose it, and which themselves may be distinguished into sensitive and motor.

R. HARLAN.

LETTER FROM DR. VERNOIS.-No. I.

[During the absence, for a few months, of Professor Martins, upon a scientific expedition in the North of Europe, his place in our correspondence is supplied by Dr. Vernois, of Paris. Our readers will find that their interests have not been neglected in the substitution. EDS.]

The Late Discussion upon the Subject of Poisoning from Arsenious Acid.

Paris, May 15th, 1839.

To the Editors of the Medical Examiner.

In the absence of more important medical news, I propose to draw the attention of your readers to a question of considerable clinical and therapeutic interest, the solution of which is still under the consideration of a commission appointed by the Academy of Medicine. I allude to the subject of poisoning by arsenious acid, including some of the symptoms to which it gives rise, and the therapeutic efficacy of certain methods of treatment. My intention, you may perceive, is not to undertake the medico-legal history of the subject, but to attempt to throw a little light upon some of the points which have been started in Two recent facts have awakened the discussion. the attention of physicians to the topic. The first, noticed by all the journals of the metropolis, is the suicide, by arsenic, of Soufflard, a prisoner condemned to capital punishment; the second, an accident of a similar character, which happened to a patient of Dr. Coquerel. An ac-

"When the sensitive nerves are cut, the motor some details furnished by MM. Coquerel and Orfila, followed by some notices upon the subject, contradictory of the preceding, by M. Rog-We necessarily encounter here doubt and hesitancy; for we cannot enter into the personal discussion which has taken place on the occasion. The principal circumstances involved in the affair, are as follows:—On the 27th of January last, a man was poisoned by arsenious acid, mixed by mistake, instead of flour, in a ragout. Continued vomiting, which lasted near forty-eight hours, was the first symptom observed. Dr. Coquerel administered the sesquioxide of iron, and had some leeches applied. When seen the fifth day by M. Orfila, the patient laboured under violent, and even painful palpitations of the heart, with symptoms of meningitis, fever, &c. A bleeding was practised, and the presence of arsenic was ascertained in the blood. On the eleventh day, the poison was again recognised in blood taken by a second bleeding. The symptoms became gradually alleviated, and M. Orfila took the occasion to advance that this fact corroborated one of the propositions which he had established in his memoir upon the case of Soufflard-a proposition to the following effect: Bleeding is indicated in the treatment of poisoning from arsenious acid, not only because it acts antiphlogistically, but because it offers the means of abstracting from the current of the circulation a portion of the poison absorbed. This opinion, publicly put forth at the Academy, excited a very lively discussion. The Gazette des Hôpitaux, the doctrines of which were espoused by M. Rognetta, maintained, after a fresh examination of the patient in question, (more than twenty days after the accident,) that he had not suffered any painful palpitations of the heart; that there had been no symptoms of meningitis, but a train of nervous phenomena; that the organic and constitutional action of the arsenic was of an asthenic, or debilitating nature; that bleeding, or other antiphlogistic remedies, acted with the same tendency as the poison itself; finally, that exciting remedies, as the alcoholic preparation, diminished or dissipated the symptoms of intoxication.

There were evidently involved here both a general question belonging to the subject of poisoning with arsenious acid, and another relating specially to the case with which we are occucount of the first case has been drawn up and pied. It will be better to devote our attention published by Mr. James, interne at the Hôtel particularly to the general question; for by basing Dieu; nothing is known of the second, except our arguments upon a solitary fact, much of the

interest connected with the toxicological history of arsenious acid, would be lost.

Let us inquire, then, in the first place, if the clinical fact of the cardiac pain and palpitations be well established, or if there be not some error on this subject; in the second place, let us endeavour to estimate the actual value of the presence of arsenic in the blood, (detected at the onset of the poisoning, and a considerable time afterwards.) And let us, finally, consider the question if bleeding acts in the manner supposed by M. Orfila.

Authors who have examined this subject, (Sallin, Desgranges, Renault,) have established from their experiments upon animals, and from the cases which have come under their observation, that there is an excitation of the movements of the heart. M. Cadet de Gassicour, (see Dictionary of the Medical Sciences, article Arsenious Acid,) enumerates among other symptoms of poisoning from arsenious acid, palpitations, followed by great prostration of the strength. None of them speaks of pain of the heart.* M. Alphonse Devergie, (Dictionary of Practical Medicine and Surgery,) says that in these cases, the pulse becomes frequent and more developed, the beating of the heart stronger, &c.; he makes no mention of pain in this region. Laboule and Chaussier observed cases in which the only symptom was repeated syncopes. M. James, in the account of the case of Soufflard, informs us that the pulse was almost imperceptible, and that the beatings of the heart were nearly insensible; the intelligence was not disturbed for a single instant. Lastly, we have seen the results of the experience of MM. Orfila and Coquerel in the last mentioned patient. We should, however, bear in mind that their statement is contradicted by M. Rognetta. Before drawing any conclusion from these premises, it will be well to examine the value of the observations themselves. As often as we apply the ordeal of rigorous criticism to the study of facts, it is rarely that we find them, especially in medicine, undergo it as they should. For, in fact, can we refer the pain existing in the præcordial region invariably to the heart itself? We cannot but doubt this fact, when we call to mind that these theoretical ideas have been admitted only after repeated examinations of the dead body, where the heart has often been found softened, the valves covered with red

plaques, &c. M. Devergie admits that his experiments upon animals lead him to the conclusion that arsenious acid exercises a special action upon the heart; but, he prudently adds, is this an irritation thrown upon its internal membrane? I say, that we cannot but doubt the constancy of the fact in question, when we bear in mind, on the one hand, that all the alterations described are found in other cases of poisoning, and in other affections, without giving rise to analogous symptoms,-on the other, that pain is an exception to the general rule in M. Bouillaud's cases of endocarditis; and, finally, that this pain may belong to pericarditis, to the cardiac plexus, to the walls of the chest, &c. We may add the statement of M. James, who discovered nothing of the kind in the case of Soufflard, and the denial by M. Rognetta of the assertions of M. Coquerel.

Such, then, is the contradiction which prevails in science upon this point, that we cannot admit it to be a demonstrated fact, that pain in the precordial region is a pathognomonic sign of poisoning by arsenious acid, since in the last and best observed cases it was wanting; or, in the second place, that this pain belongs specially to the heart, since its seat may be in other neighbouring tissues; or, that the alterations found after death in these cases, are either sufficiently constant, or sufficiently confined to this species of intoxication, to constitute a specific anatomical character of it.

Let us next pass to the subject of the presence of arsenic in the blood. What is its own particular influence, and its effect upon the symptoms which are developed? M. Orfila, to whom unquestionably belongs the very great merit of having pointed out the mode of detecting the presence of this poison in the blood, thinks that it is under the influence of the circulating agent, that the poison, originally absorbed, becomes afterwards spread through the tissues, and determines most, if not all the symptoms which come under observation. This question is certainly one of the most important that can be discussed, not only from its bearing upon the subject of arsenious acid, but upon that of poisoning in general. In fact, we here again encounter the influence of theoretical ideas, and of physiological experiments upon the action of poisons. Every one is acquainted with the investigations of M. Magendie upon the venous capillaries, and the property which he has attributed to them of

^{*}Smith is of opinion that arsenious acid acts upon the heart in a special manner, and that death is the result of the gradual extinction of the contractions of this organ. being the agents of absorption. It should result

from this fact that the blood becomes the most direct cause of all the symptoms consecutive upon the introduction of a poison into the economy. But as we are far from having unanimity in the present day among physicians, this new question of the value of the presence of arsenic in the blood, in cases of poisoning by arsenious acid, necessarily obliges us to enter into some contradictory physiological details.

In 1829, Doctors Thomas Addison and John Morgan, physician and surgeon to Guy's Hospital, published an essay on the operation of venomous agents upon the living body. The object of the labours of these two writers was to determine whether poisons act by passing by absorption into the blood, or whether their effects are produced by simple contact of these agents upon the nervous extremities. It will be at once perceived that the therapeutic consequences which must result from these investigations, are precisely those which are actually interesting us. We cannot find room for an account of all the ingenious experiments performed for the elucidation of this question; we shall content ourselves with the two following :-

1st. Two large bull-dogs, of equal size and strength, were placed upon a table, face to face, and embracing each other; a communication was established between the right carotid of the first and the left carotid of the second. In this manner, the blood starting from the heart of one dog, flowed into the brain of the other. Adopting the theory of venous absorption, it were reasonable to suppose that the dog which furnished blood to his neighbour, would have furnished him also with poisoned blood, if the former should undergo inoculation from any poison, and that then the poisoned blood, carried to the brain, ought necessarily to produce the same effects in both ani-Such, however, were not the results Very violent effects manifested themselves in the animal which was giving blood to the other, and which had been poisoned with the extract of nux vomica; and, although the experiment lasted fourteen minutes, during which time the circulation from one to the other was perfectly maintained, not the slightest symptom of the action of the poison was noticed in the other animal.

2d. Between two strong hounds, placed as the

oculated upon the face with nux vomica, and, shortly after, exhibited all the signs of poisoning with this substance. The experiment lasted seven minutes; the other dog experienced no bad symptom. These experiments were multiplied, and the poison injected directly into the veins or arteries, and, in no instance, did a double poisoning result. From these facts, Messrs. Addison and Morgan concluded that poisons act upon the brain and nervous systems by means of an impression exerted upon the sensitive extremities of the nerves, and not by absorption.

Some of these experiments have been repeated by Dr. F , for the purpose of verifying these facts. He has ascertained that prussic acid placed upon the foot of a rabbit, after the principal vein of the limb has been carefully tied, kills the animal as quickly as when no ligature has been practised. Another way for the transmission of the poison than the circulatory system must, therefore, be imagined.

Do these experiments demonstrate that the veins have not absorbed the poison, and that it has not passed into the blood? Undoubtedly not: I think that the fact of the presence of the poison in the blood is incontestable. But this is not the question before us; our object is to determine the value of the presence of the poison in the circulatory system, and its real agency in the production of the symptoms. In our view, the experiments which we have cited are of a nature not to explain the proper action of the poison, but to modify the received views of the influence of the circulation in these cases. In fact, the blood appears to contain the poison merely as do the other tissues and fluids of the body; and, to return to our particular subject, the arsenic is found in the blood, just as it is in the muscles, in the bones, and throughout the body; but it is not the cause of the train of symptoms. It is even probable, that long after the disappearance of the symptoms, arsenic may exist in the tissues. M. Orfila, we know, detected it in blood drawn twenty-two days after a poisoning, and when the patient of M. Coquerel was in full convalescence. Further, the arsenic mingled in the blood does not seem to possess the venomous properties elsewhere belonging to it. Thus, according to M. Orfila himself, (Legal Medicine, vol. iii. p. 172, Arsenious Acid,) leeches, which preceding, a communication of blood was esta- expire rapidly in water charged with one-twenblished through the medium of the jugular veins. | tieth part of arsenious acid, do not die when Thus, the venous blood from the head of one dog they are applied to bodies poisoned by enormous reached the heart of the other. The first was in- doses of this acid. He has seen them live three

days, and did not, at the end of that time, find arsenic in the blood which they disgorged.

What opinion, then, are we to form of the therapeutic action of bleeding, with the object of removing from the current of the circulation a portion of the poison, and of the cause of the symptoms produced? It is evidently a mistaken idea. We are far from rejecting the employment of this remedy; but it must be addressed to other symptoms, and its action be otherwise explained; above all, its indication must be better understood. Bleeding performed for the purpose of diminishing the intensity of the general nervous symptoms, is useless, inasmuch as the poison contained in the blood is not the cause of these symptoms, while they are only increased by the loss of blood. Under a solitary contingency, it may and ought to be practised—when there are evident symptoms of active or passive congestion of one or more organs, important to Performed under other circumstances, and without this capital indication, it seems to us, that the tendency of its action will be always in the same direction as that of the poison itself.

DOMESTIC SUMMARY.

Albany Medical College. — From the circular and catalogue of this institution, we learn that a class of sixty-eight attended the late course, thirteen of whom received the degree of Doctor of Medicine.

A case of Aneurism, successfully treated by the Needle. Read before the Medical Society of Georgia. By C. P. RICHARDSONE, of Savannah, Geo .- A. B., an Irish labourer, called at my office on the 27th of January last, with a tumour, the size of a pigeon's egg, two inches above the wrist; the arm was much swollen and tense; its temperature greatly elevated, and, as may be supposed, he was labouring under great constitutional disturbance. The tumour was an eurismal; produced by a wound of the radial artery, an inch below the aneurism. The history which he gave me of the case was, that in some fight, three weeks before, he had been stabbed. At the time, the wound bled considerably, but was stopped without surgical aid, and as the wound readily healed, no more was thought about it. about a week afterwards, his arm became swollen from the elbow to the wrist, and very painful. The tumour then became obvious at the place I have mentioned. Its gradual increase, with the pain and tumefaction of his arm, induced him, two weeks afterwards, to seek advice. When I first saw him, his arm was much swollen with the

the aneurism tense and pulsating. It was at thi time that I passed the needle horizontally through the tumour-using the precaution to arm the extremities of the needle with pieces of cork, that it might not escape or be caught by the roller with which I encircled the arm. Directions were then given to keep the arm constantly flexedthe bandage to be saturated with cold water-to take a large dose of salts, and to refrain from food. Previous to the passing of the needle, the pulsation of the tumour and the radial artery below the tumour, was distinctly felt. But shortly afterwards (ten minutes) the diastole of the artery was harely perceptible, whilst the pulsating of the tumour had altogether ceased. On the 30th, three days after the first dressing, the tumour was hard, and no impression could be made by pressure—the pulsation of the artery below the tumour was very plain-the pain, heat and tumefaction of the arm had subsided, with no appearance of suppuration at the point at which the needle was introduced.

2d of March. The tumour was still hard, and there was no pulsation of the radial artery; round the place of entrance and exit of the needle were the appearances of suppuration. In one week from the time I passed the needle, the coagula had sloughed out, and the artery above the tumour, as far as could be ascertained, obliterated. Two weeks perfected the cure, and the man was able to go to work. Had the needle been withdrawn three days after its introduction, or before any signs of suppuration had made their appearance, I believe that the coagula would not have sloughed, but would have been absorbed, and the parietes of the sac gradually coalesced. I further believe, that whenever coagulation of the blood in an aneurismal tumour does take place, that the cure of the aneurism may be considered as accomplished, for, as I before said, the sac will contract, the coagulum will be absorbed, some portions in continuity with the sac will become engorged, and consolidate, others will escape by the process of ulceration through the integuments, and ultimately a progressive coalescence of the tumour will thus take place.

There were circumstances in the case just detailed that were far from being favourable to a fair trial of the plan of cure by the needle. The arm was very much swollen and inflamed, and the constitutional disturbance greatly in excess, all of which admonished me, that any additional irritation would probably end in ulceration of the parts. If then, a cure can be effected of an aneurism, under such untoward circumstances, what might we not expect where the aneurism was slowly progressive—where the system was not much implicated—and where the contiguous parts did not participate in the abnormal action?—Southern Medical and Surgical Journal, for July.

weeks afterwards, to seek advice. When I first saw him, his arm was much swollen with the blood that had infiltered throughout its whole cellular tissue; the heat and redness intense; his whole system participating in the irritation; and

He was induced to employ the remedy from the notice of it, by M. Reynaud, of Paris, published in the first volume of the Examiner, and has every reason to be satisfied with its efficacy.

Treatment of Scarlet Fener; contained in a letter to the Editor. By EDWARD C. KECKELEY, M. D. Charleston, S. C .- Believing it to be the duty of every physician to add all he can to the stock of medical facts, I send the plan of practice which has been pursued by me in scarlet fever. When first called to prescribe for a case, I candidly confess, that I obeyed the call with reluctance. I had been induced to consider the disease as almost an opprobrium medicorum. I determined to attempt a tract which was not altogether beaten smooth. I found it so pleasant, that I now travel it without the elightest fear of not arriving at the full consummation of my fondest hopes-

the speedy relief of my patient.

The division of scarlet fever which has been made by Dr. Dewees, answers all practical purposes. The "scarlatina simplex, or simple constitutional disease, without any morbid affection of the throat," requires very little medical treat-ment. It will run its course, and the patient get well without any thing being done. seen several cases terminate in this way, without the least attention being paid to them. This was the case in my own family. When medicine is necessary, the bowels should be gently operated on with small doses of calomel, and Epsom salts, and magnesia. The diet should be antiphlogistic. In the anginose state of the disease, the treatment must be commenced with the full emetic operation of ipecac. The emetic may be repeated daily, or even twice in a day.

This is the anchor of our hopes. I have seen the disease put a stop to after one full emetic operation. The bowels should be operated on daily by small doses of calomel: two grains to be given every hour until the object is accomplished. So much for the constitutional treatment. Not the least important part of the treatment is the faithful use of suitable gargles. When ulceration has not taken place, I have derived the greatest advantage from the capsi-It may be made into a tea with hot water. It, I think, effects more when digested for a time in vinegar. After the ulceration has taken place, no mixture as a gargle is superior to the following: 8 oz. solution of Gum Arab., 3j. Spts. Turpentine, M. I have used this, instead of the capsicum, with the happiest effects. The medicinal virtues of the turpentine are not known, and will probably long remain so, in consequence of its being an article of home production. Medical men too generally undervalue our vegetable productions. In addition to the preceding, external stimulant applications to the throat should not be forgotten. For this purpose, the throat should be rubbed frequently conception was supposed to be about eight

through the day, a piece of flannel. I have seen much benefit derived from the use of the foot bath at bed time. In the malignant form, the same treatment is to be pursued as in the preceding variety. Should any untoward symptom arise, the physician must apply the proper remedy. For the dropsical affection which sometimes supervenes, I generally use small doses of capsicum, combined with sup. carb. soda. No peculiarity of treatment is necessary. In the management of scarlet fever, the greatest attention must be paid by the physician and nurse. From the trouble attendant upon every case, the nurse requires to be closely watched. A good rule to be strictly observed is, whatever is done, let it be done quickly and faithfully. I have not the least doubt that nearly all of the cases which terminate fatally, are the result either of improper practice, too long delay, or gross neglect on the part of the nurse. I hold scarlet fever to be one among the most easily managed diseases with which the physician has to contend; but neither of the above three faults must be present. For the above plan I claim unlimited success-out of about twenty cases one died, and this one was the result of neglect by the nurse, until it became too late for any thing to be done. I forgot to mention that cold drinks are to be strictly forbidden. Avoid the external application of water, as you would the sting of a poisonous serpent.—Ibid.

FOREIGN SUMMARY.

Casarean Operation. —The following report of the Cæsarean operation, mentioned by Dr. Harlan, in his last letter, is by Mr. Dubois, the operator:

Rosine Regnier, twenty-three years of age, three feet three inches in height, was admitted in the hospital on the 24th of January, 1839. None of the patient's family were below the middle size, and up to the age of nine years the child did not present anything abnormal in appearance or form. About this time she was attacked with eschars on various points of the body; different portions of the osseous system were removed, and it was only after the lapse of four years that the wounds were completely healed. From this time the child ceased to grow, with the exception of the head, whose volume appeared to be excessive. About ten months ago the parents of the girl made an engagement for her with a man who gained his livelihood by exhibiting "phenomena" to the vulgar; the girl soon became pregnant, in consequence of a speculation of her master, who thought that the accession of an infant dwarf would add mightily to the interest of his show.

through the day with the following liniment: months back. Labour-pains set in on the 28th to 3j. Olive Oil, add 3j. Tinc. Capsicum, M. of March, and on the 29th the operation was per-At night a light woollen bag filled with warm formed, in the presence of a crowd of spectators. ashes should be applied around the neck; and The first incisions having exposed, through the linea alba and peritoneum, the body of the uterus, a quantity of intestine, together with the bladder, immediately escaped through the wound. All attempts to return them into the abdominal cavity were fruitless, and as vomiting and hiccough, with slight faintness, set in, the bundle of intestines was pushed aside, and the anterior wall of the uterus divided. A considerable jet of blood immediately followed, from the insertion of the placenta, but the fœtus was soon extracted, and the uterus at once closed on itself. As the patient was extremely feeble, the intestines were now returned into the abdomen without being cleaned, and a few points of suture were applied. The general surface, which was at first cold, recovered its heat after the lapse of an hour; the vomiting was arrested by ice-cold drinks, and an

opiate enema was thrown up.

'The patient passed a quiet night, but the vomiting returned on the following day; the abdomen became tumid and painful; some leeches were applied; these did not produce even temporary relief; the vomiting was now constant; the face much altered; the pulse extremely feeble, and the patient sunk forty hours after the operation. On examining the body it was found that a commencement of union had taken place in the incision through the abdominal walls, to which a portion of the small intestine was loosely adherent. The remaining portion of the bowels was coloured from imbibition of a small quantity of effused blood, and the only traces of inflammation were some shreds of gelatinous effusion, which united the intestinal folds together. The antero-posterior diameter of the inlet of the pelvis was two inches five lines; the transverse four inches. At the outlet of the pelvis the measurements were-antero-posterior, 2.6; transverse, 3.2.—Lancet, from Bul. de l'Acad. de Med., May 15.

Antiquity of the Operation for Wry Neck .- From the following passage from Ward's Diary, written between the years 1648 and '79, and lately published in the London Medical Gazette, it appears that the brilliant operation of Dr. Stromeyer was performed by a mountebank, in the seventeenth century:

"The mountebank that cutt wry necks, cutt three tendons in one child's neck, and hee did it thus: first by making a small orifice with his launcet, and lifting up the tendon for fear of the jugular vein—then by putting in his incision knife, and cutting them upwards; they give a great snapp when cut. The orifice of his wounds are small, and scarce any blood follows. Some are wry neckt from the womb; they only lay a melilot plaister to heal the wound; the plaister must bee a fresh one every day. As for the symptoms of this cutting, they are only these: In the first group the physical signs referrible itt, as the mountebank says. When hee hath pathognomonic of organic disease of that organ. cutt itt, hee bends the child's neck the other way, In the cases of Gibson and Shaw the post-mortem

and puts on a capp and a fillet tied to the capp, and so ties it under the armpitts, and so by constant bending the head that way, itt becomes straight and upe right."

Clinical Lecture on Diseases of the Heart. By ROBERT CARSWELL, M. D.—Gentlemen:—Although I have, on several occasions, directed your attention to the study of the diseases of the heart, and more especially to their physical signs, the importance of the subject induces me to offer you some additional observations on the cases which we have had an opportunity of observing during the last three months. You will, I am sure, be surprised to learn that nearly one half of the patients admitted during that period, with various diseases, have presented physical signs of the existence of anormal conditions of the heart. From the 1st of January up to this date (28th March) there have been admitted 30 female and 29 male patients, with various acute and chronic diseases. Of the former there have been 14 cases; of the latter 11 cases, in which physical signs of these anormal conditions of the heart were observed. From a tabular view of the physical signs observed in 25 recorded cases it appears that by far the most frequent consisted of morbid sounds, either single or double, principally heard at the base or apex, or in both regions of the heart at the same time, and accompanying the natural sounds of that organ. In seven or eight of these cases the morbid sounds were accompanied with a greater or less degree of increase of the impulse and sounds of the heart, heard over a greater or less extent of the chest, beyond the natural limits. In three cases only were the morbid sounds absent, the diseased conditions being manifested by the preternatural extent of the sounds and impulse alone of the In one case no physical signs were observed during life, the disease of the heart (concentric hypertrophy) not having been detected till after death.

Of all the cases in which physical signs of the existence of anormal conditions of the heart were observed, six only were entered in the case-book as morbus cordis, the heart being the organ essentially and primarily affected, and its morbid states the cause of the complications, such as general congestion, anasarca, ascites, hydrothorax, bronchitis, and emphysema, which had compelled the patients to seek for relief.

Of the 19 remaining cases three were cases of rheumatism, three of phthisis, and the rest of various diseases.

We shall divide all the cases into two groups; the first group comprehending those entered as diseases of the heart; the second including those entered under their respective names; and endeayour to estimate the diagnostic value of the signs appertaining to each.

that about a day or two after, the child will be to the morbid conditions of the heart, were of such sickish, some humour falling on the stomach of a character as to entitle them to be considered

appearances confirmed, in every particular, the accuracy of our diagnosis. In Gibson's case there were marked physical signs of hypertrophy, and a loud morbid sound heard to the left of the apex of the heart; and after death the size of the heart was found greatly increased, and the mitral valve in a state of permanent patentcy. In Shaw's case the impulse of the heart was too strong, and heard too extensively. A slight morbid sound was heard at the base of the heart along with the diastole; and to the left of the apex along with the systole. After death there were found hypertrophy of the walls of the heart, rigidity, shortening, and obliquity of the mitral valve, and perforation of one of the semilunar valves,conditions which sufficiently explained the production, by regurgitation, of the morbid sounds, and the too strong and extended impulse of the heart observed during life.

In the case of Shiraffs, which I have already detailed to you on a former occasion, we have physical signs equally conclusive of the existence of organic disease of the heart and its valves.

In the case of William Tobin, which I have not yet brought under your notice, the physical signs of organic disease of the heart possess the same positive value as those of the preceding case. He has been in the hospital for upwards of three weeks. The impulse of the heart is too strong and too extended; there is extensive dulness over the cardiac region; and a slight morbid sound, heard at the base, accompanies the second sound of the heart. There were, besides, some congestion of the face, lips and tongue; ædema of the feet and ankles towards evening; palpitations, dyspnæa, orthopnæa, and slight bronchitis.

In the fifth case, viz. that of Halliday, the physical signs were those of hypertrophy and dilatation, in which the latter probably predominated. The chief symptoms were referrible to congestion of the lungs, in some degree of the brain, of the digestive organs, and of the extremities. In his case the organic affection of the heart was not considerable, and probably remediable, but it was the obvious cause of the symptoms enumerated; whilst in those of Shiraffs and Tobin* (who are still under treatment, and greatly improved,) it is extensive, and of such a nature as to prove ultimately fatal.

In the sixth and last of the cases entered as disease of the heart, viz. that of Foreman, we had also unequivocal physical signs of organic disease of the heart. Of the history of this patient's case, I shall merely state, that about a year and a half before his admission into the hospital, which was on the 15th of January, he became subject to a hacking cough, and soon after experienced severe palpitation of the heart on any exertion, as in walking quick, or going up stairs, &c. These symptoms continued up to that time, and became gradually more and more severe. When examined, the impulse of the heart was found too strong and felt over too large a surface. The

rhythm was irregular, with occasional intermittence. The first sound of the heart was replaced by a loud, rough and prolonged morbid sound, most distinctly heard near the apex. The second sound was heard somewhat morbid at the base of the heart. There was also a very strong purring tremour felt over the cardiac region, especially when the patient stooped forward. The dulness on percussion was not too much extended. From these physical signs it was clear that we had organic disease of the heart of at least a year and a half's duration. We had, in fact, a case of hypertrophy and dilatation of the walls of the heart, and a morbid condition of the mitral valve, and of the semilunar valves of the aorta. This patient left the hospital greatly better at the end of two weeks. The increased action of the heart became gradually less, and the anormal sounds diminished in intensity. He was bled to eight ounces from the arm on his admission, and took the solution of the iodide of potassium and tincture of digitalis, during the period stated.

Of the second group, comprehending 19 cases of disease, in which physical signs existed of anormal conditions of the heart, three of them were cases of rheumatism, three of phthisis, two of erysipelas, two of eczema impetiginodes, one of acne, of peritonitis, &c. of cephalalgia, of dysentery, of poisoning by opium, of abdominal congestion, of dyspepsia, of colica pictonum, and of lichen.

In some of these cases the diagnostic value of the physical signs can be ascertained with equal certainty and facility. In the three first cases, or those of rheumatism, we have the physical signs either of valvular disease alone, or these combined with those of hypertrophy. You will, per-haps, recollect the case of Mary Bye, admitted the 31st of January, with acute rheumatism, the history and treatment of whose case I brought before you formerly, and which was rendered peculiarly interesting from the fact of the anormal sounds of the heart having, after the space of a few days, considerably diminished, under the influence of the treatment employed. She had been twice bled from the arm, and had taken the acetous extract of colchicum three times a day, and a pill of calomel, and compound powder of ipecacuanha morning and evening, until the mouth had become slightly affected. It was at this time that the anormal sounds in the region of the heart diminished in intensity. They consisted of a double bellows-sound, heard with the first and second sounds of the heart.

As I have already given you the history and treatment of this case up to the seventh day, and as it furnishes a most satisfactory example of the cure of endocarditis, or of inflammation of the valves of the heart, I shall now relate its further progress and termination. On the 9th of February, the rheumatic inflammation of the hand, elbow and shoulder had lessened, but it had become worse in the ankles, which were very red, hot and painful. The patient could get no sleep at night. The morbid sounds of the heart were the same, that is, less marked than when first

^{*}Both patients left the hospital relieved of all the complications, and in their ordinary state of health.

heard, but still readily distinguished; and as the pulse was full and firm, twelve ounces of blood were again taken from the arm. The acetous extract of colchicum was increased to two grains, three times a day, and twenty-five minims of the tincture of the meconate of morphia ordered to be taken at night. On the three following days leeches were several times applied to the joints with considerable benefit. The colchicum had been increased to two grains and a half, and was followed by frequent vomiting and purging, and was, therefore omitted. The mouth continued sore; the inflammation and pain of the joints gradually diminished, by subsequent applications of leeches, and on the 23d were quite gone. On the 26th the morbid sounds of the heart had almost entirely disappeared, and six days after no trace of them could be heard, when the patient was discharged quite well.

That the double bellows-sound in this case indicated the presence of valvular disease, and that the morbid condition in which it originated was rheumatic inflammation, can no longer be matter of doubt to the stethoscopist; and much, if not the greater part, of the accuracy of our diagnosis of the presence of this complication of rhenmatism, we certainly owe to the researches of M. Bouillaud, on what he has appropriately denominated endocarditis, in contradistinction to inflammation of the pericardium, or pericarditis. After having laid before you the two other cases of rheumatism, accompanied with physical signs of disease of the heart, I shall, if our time will permit, make some remarks on the seat of the morbid sounds heard in each, and on their probable cause and mode of production.

The second case of rheumatism, accompanied with anormal sounds, occurred in a boy, eight years of age, who was admitted on the 19th of February. Previously in the enjoyment of good health, he was exposed to cold, and was seized with pain in the ankle and foot of the right side, which afterwards shifted to the knees, and from them to the shoulders, arms and hands. When admitted the pain was confined to the left shoulder, unaccompanied by redness or swelling; was increased by cold, relieved by heat, and worse towards evening. His sleep was disturbed; skin hot; pulse 90; bowels irregular. On applying the stethoscope a bellows-sound was heard with the first sound of the heart at the apex only, and when respiration was suspended. The second sound was slightly morbid at the base; the rhythm was regular.

This case of rheumatism was altogether mild; neither the local nor general symptoms had been severe, and were, indeed, very slight when the patient entered the hospital. Notwithstanding, it was complicated with endocarditis, as shown by the stethoscopic signs which I have mentioned. Whether these disappeared before the pa- that time, and which continued more or less up tient left the hospital was not ascertained; he was to the time of the rheumatic attack of the joints. discharged, cured, a week after admission, the In addition to these symptoms, and the double chief means employed being the solution of the bellows-sound heard at the base of the heart, there iodide of potassium.

The last of the cases of rheumatism, complicated with disease of the heart, is that of James Finnagen, ætat. 33, admitted 19th of February, and is still under treatment. He is a tailor by trade, married, of pretty regular habits, has been lately much exposed to cold and wet, and much fatigue. He has always had good health (with the exception of a cough during the winter months of the last five years,) until eighteen months ago, when he became subject to a continued pain in the cardiac region, aggravated at times, and great This cough became worse, and the palpitation. expectoration more profuse. He had supra-orbital headach, red clouds and flashings of light before his eyes, defective vision, and sometimes dyplopia; giddiness, and sometimes he fell insensible; tinnitus aurium, and frightful dreams. These symptoms continued until three or four weeks ago, when he got wet through for several days together, and soon experienced pain in his knees, ankles, hips, loins, left shoulder, elbows and wrists. The pain also in the cardiac region became worse. He had no advice for the rheumatism, but applied at Moorfields on account of the dimness of sight. He was given some ointment of tartarised antimony to rub on the back of his neck, and had some blue pills to take, but his mouth becoming sore, he discontinued the use of both. He got gradually worse, and on the 19th of February came to this hospital.

Present symptoms.—Skin hot and dry; tongue white; headach; disturbance of vision, and dreaming as before-mentioned, with pain in the cardiac region, increased on firm pressure between the ribs; palpitation, with cough and slight expectoration; pulse 84, full and strong; bowels regular; urine scanty and high coloured.

A double-bellows sound (the second the louder) heard most intense at the junction of the fourth left costal cartilage with the sternum, and also over the whole cardiac region; impulse much too extended; rhythm regular; sonorous rattle in both lungs anteriorly, but most marked in the

The principal signs and symptoms observed in this case were obviously those of rheumatism and endocarditis (those indicating cerebral disturbance and bronchitis we shall pass over for the The acute affection of the joints and present.) endocarditis existed together at the time the patient was admitted, the former having occurred about three or four weeks previously, after exposure for several days to wet and cold. The latter, or the endocarditis, most probably existed from the period stated in the report, viz. eighteen months prior to the attack of rheumatism, when the symptoms then felt by the patient were aggravated. Great palpitation and continued pain in the region of the heart were the principal symptoms which accompanied the cardiac affection at were, also, when the patient was admitted, marked

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signs of hypertrophy of the left ventricle. Whether this complication was the consequence of the endocarditis which occurred eighteen months ago, or existed previous to that period, we cannot now ascertain with certainty. But as it is stated in the history of the case that the patient had always enjoyed good health up to that time, it is extremely probable that the acute affection of the heart, or endocarditis, which then manifested itself by the symptoms which I have stated, preceded the hypertrophy which we found to exist when the patient was submitted to our examination. There is no doubt that hypertrophy in this, as in many cases, may have existed before, and favoured the development of the endocarditis. However, as the latter disease is by far the most frequent of the causes of hypertrophy of the heart in the young, and those of middle age, beside its probable occurrence in this case in a subject susceptible of rheumatic inflammation from exposure to cold, I am disposed to believe that the hypertrophy occurred subsequently to, and as a consequence of, the endocarditis.

This is by far the most severe of the three cases of rheumatism with complication of cardiac disease. The patient, at the period of this report, was under treatment six weeks, and although the symptoms of the rheumatic and bronchial affections soon disappeared, and the cerebral and other symptoms greatly diminished in severity, the anormal sounds and hypertrophy of the heart were as strongly marked as ever. The action of the heart was still equally strong and extended, and the bellows-sound which occurred during the diastole was so strong as to obscure entirely or replace the second sound of the heart. Under these circumstances, we cannot entertain the slightest doubt that there exists in this case permanent organic disease of the valves and walls of the heart. The treatment consisted, at first, of general bleeding, cupping and leeching, blistering and colchicum; and afterwards of the iodide

Of the sixteen remaining cases in which physical signs of anormal conditions of the heart were observed, in at least two of them were these signs indicative of organic disease. In the first of these, the disease for which the patient, a female, was admitted, was acne. Besides the physical signs, which were those of hypertrophy and dilatation, as shown by the increased impulse of the heart and the extent of the chest over which the anormal sounds of that organ were heard, there were symptoms of general congestion, but more especially of the brain. In the second case, which was one of colica pictonum, there was not only increased impulse, but a bellows sound heard with the first sound of the apex; intermittence and irregularity of the heart's action.

In the other two cases already alluded to, - one of phthisis, the other of peritonitis,—the nature and extent of the organic affection of the heart were observed by us after death.

Twelve cases now remain of the whole number, viz. twenty-five, the physical signs observed in which were the following: -A slight bellows, change which it had undergone.

or slight morbid sound, heard at the base or apex of the heart, or at both, constituted the only signs that were observed; in one case the morbid sound was rough and scraping at the apex, and in another it was double, heard equally at the base

and apex, and at the top of sternum.

In none of these twelve cases did the morbid sounds appear to indicate extensive disease. Not only were the physical signs which they furnished mostly slight in degree and extent, but they were unaccompanied by any symptoms or complications which could be considered to have any connection with them as signs of cardiac disease. That they were, nevertheless, signs of the existence of some morbid condition of the heart is more than likely, from the most of them having been heard on several occasions during the stay of the patients in the hospital, consequently under different conditions or circumstances; from their occurring in male as well as in female patients (in three of the former and nine of the latter;) in diseases of a very different, and even opposite kind; in patients from two up to fifty-eight years of age, and in none of whom were present those nervous, and more especially anemic states which give rise to the production of anormal sounds in the heart.

In two of the patients, fifty and fifty-eight years of age respectively, the anormal sounds might, from the absence of all other predisposing or exciting causes, in the history of either case, be reasonably supposed to depend on some one or more of those morbid alterations which make their appearance so frequently in the valves of the left side of the heart, about this period of life, and as a consequence of age. I must, however, observe that perhaps too much has been attributed to this circumstance alone, in our desire to explain and account for the frequent occurrence of fibrous, cartilaginous, and osseous transformations in the heart and arterial system, after a certain period of life. It is, certainly, a well-established pathological fact, that such alterations do occur in accordance with the law of pathological transformation of analogous tissues; and nowhere is it so frequently verified as in the heart and arteries, without our being able to trace it to such a cause as inflammation. Still, as by far the greater number of analogous tissues and transformations can be demonstrated to originate in inflammation, we shall not err if, in the absence of more direct evidence, we regard these lesions of the heart, and of the valves especially, which give rise to the production of anormal sounds, as having a similar origin, not only in all cases at an early period of life, but very frequently when the progress of age is supposed sufficient to explain their occurrence.

The remarks which I have already made on the physical signs observed in these twenty-five cases of cardiac disease, and the remote origin of by far the greater number of them in inflammation, render it unnecessary for me to enter into a minute investigation in regard either to the precise part of the heart affected, or the nature of the

Although we are, perhaps, not yet in possession of the means of ascertaining with certainty the precise locality of the morbid sounds developed in the region of the heart, yet I am disposed to believe that we can do so in the great majority of cases, and certainly with sufficient accuracy for all practical purposes. The character of the morbid sounds, the situation, and direction in which they were best heard, were such in the most of our cases as to leave little doubt of their depending on valvular disease. The morbid sounds were chiefly of the bellows kind, and, as I have already said, were heard in the situation of the semilunar valves, in the direction of the aorta or upper part of the sternum, and in the situation of the mitral valve, towards the left, or at the apex of the heart. I do not believe that we have had unequivocal signs of pericarditis having existed in a single case, out of the twenty-five recorded cases,—an approximative fact at least, which is little in accordance with the opinion formerly, and not long since entertained, of the great frequency of pericarditis as a complication of rheumatism, or as an idiopathic disease. A still greater frequency, however, has been ascribed, especially by M. Bouillaud, to the occurrence of endocarditis in rheumatism, this author having asserted that inflammation of the lining membrane of the heart always accompanies rheumatic inflammation of the joints. This is certainly an exaggerated statement, in so far, at least, as it rests for support on the presence of physical signs. For, among the rheumatic cases admitted into our wards during the last three months, we have had four cases of acute rheumatism in which no physical signs of endocarditis, or other affection of the heart, were observable; and also two severe cases of sciatica under similar circumstances. From the facts, however, which I have stated, it is but too certain that endocarditis is an extremely frequent complication of acute rheumatism; and in no case of this disease, however slight the local affection and the general symptoms, should we neglect to examine most carefully the condition of the heart, during the whole course of the disease.

It is by no means rare to meet with mild cases of acute rheumatism, for which active antiphlogistic treatment is considered not at all necessary, and yet in which there may be signs of endocarditis requiring the employment not only of this means but of the most powerful agents we possess of arresting the progress of this serious complication, and of which mercury is the most

certain and efficacious.

I shall not insist farther upon the practical importance of a knowledge of the physical signs of endocarditis, without which, you must perceive, you never can ascertain the existence of this complication in rheumatism, nor, consequently, secure your patient against its consequences at some future period of his life.

of the morbid states of the valves, particularly operation was the time required, and the impa-those consequent upon inflammation; and on the tience on the part of parents and practitioners the production of the morbid sounds to which they only source of failure. He believed the profes-

give rise, and by means of which their existence is detected; the consideration of both of these subjects, however, I shall defer to some more favourable opportunity. - Lancet.

Remarks on the removal of Tumours by Deligation .- At a late meeting of the Royal Medico-Chirurgical Society of London, a paper was read by Mr. Liston, on this subject, the object of which was to afford an additional recommendation of a practice, applicable to the ligature of vascular tumours, which has been again and again laid before the profession. The author is induced to bring it forward on the present occasion, because it was not noticed in either of two papers on nævus read lately before the Society. The plan alluded to consists in dividing the skin at the base of such tumours before tightening the ligature, in order to avoid including it in its noose. By thus modifying the operation, the author considers that several objections to the use of the ligature are avoided; namely, the intense suffering which attends its application in the ordinary way; the imperfect strangulation of the included mass; the bleeding which sometimes occurs on the separation of the sloughs; and the deformity caused by the destruction of the cutaneous and other tissues.

Dr. Marshall Hall observed that he was still of the opinion that he had formerly expressed, viz., that the treatment by means of a very small knife, or cataract-needle, was that to be preferred. It was unattended by pain or hæmorrhage, and was not followed by scar. If repeated often enough, and if time enough were given for nature to work her changes, it would effect everything that we could wish. We had, in fact, only to replace the nævous structure by cicatrix, and the cure must be accomplished. Now, this might be done without sacrificing the skin, or inflicting more pain than the prick of a needle, and without inducing hæmorrhage. Everything might be done under the skin, and preserving the skin, which could be effected by ligature, excision, or We might pierce the nævus from one point, in various directions, in the first instance; break it down fearlessly, in the second; and we might, by a little care, even apply a ligature, preserving the skin; for this purpose, a proper instrument, armed by a ligature, might be made to pierce the nævus near its edge, or to pass along one-half of its circumference, then to pass out at the opposite edge, and be introduced as before, and passed along the other half of the circumference; it might then be tied, and it would simply involve the nævus structure, exclusively of the skin. He repeated that everything that could be done sacrificing the skin, may be done preserving that structure, and, by doing so, avoiding pain which has induced convulsions, hæmorrhage which has induced fatal exhaustion, and a fright-I should now say a few words on the nature ful scar. The only objection to this mode of sion were still in ignorance of all that it was calculated to achieve.

Sir B. Brodie said that he was surprised that in neither of the papers on nævus read this session, nor in the discussions upon them, had any allusion been made to the very simple mode of treatment by pressure. A great number of subcutaneous nævi could by this means be effectually cured. In the case of a very large subcutaneous nævus on the back, in which he was divided in opinion whether to use the knife or ligature, he determined, eventually, to try the influence of pressure. A piece of ivory, rather larger than the nævus, was placed over it, and there secured by sticking plaster and a bandage; the pressure exerted was not great; the nævus entirely disappeared under this treatment. In another instance, in which the nævus was situated on the crown of the head of a child, very near to the fontanelle, no operation would have been advisable; the head was shaved, a piece of sheet-lead applied over the nævus, and kept on by strips of adhesive plaster; in a few months the tumour disappeared. This plan was applicable to many cases of subcutaneous nævi. Occasionally, also, it might be serviceable where the skin was slightly involved, but in cases of pure cutaneous nævi, sloughing would follow the application of pressure.—Ibid.

Clinical Lecture on Osteitis of the Upper Third of the Femur, simulating Hip-joint Disease. Delivered in St. Vincent's Hospital, Dublin, by J. M. FERRALL, Esq., M. R. I. A., First Surgeon to the Hospital. - "Disease of the hip-joint," says Mr. Ford, "in every stage of its progress, from its earliest appearance to its final catastrophe, is marked throughout by peculiar and characteristic symptoms." Such, gentlemen, is the opinion of the author of the most original and not least accurate history of hip disease that has, perhaps, ever appeared. I have, however, had occasion, more than once, since the commencement of the present session, to call your attention, in the wards of this hospital, to a disease of a nature altogether different from morbus coxæ, and yet presenting so many and such striking points of similarity to the latter affection, that the tact and experience of able men have, as you yourselves have witnessed, been foiled by the resemblance.

There is a case of this kind at present under our view; and as there are also two cases of morbus coxe under treatment in St. Patrick's and St. Joseph's wards, I have selected this subject for the matter of our present inquiry.

The disease in question, as far as I have had opportunities of observing it, is met with in an acute and a chronic form. The case at present in the hospital is of the former character; it will be more convenient, therefore, to commence with the history of that variety of the complaint to which it belongs.

night, or awaken in the morning, with severe pain, referred to the hip, and extending to the groin and knee. The pain is so much aggravated by any attempt at movement, that he is rendered perfectly lame; and in severe cases the effort to use the limb may be so very painful that he is totally unable to leave his bed. In the humbler walks of life, however, where little alarm is excited by the mere occurrence of pain, the child may be suffered to struggle to the erect or sitting posture every day for one or two weeks, until his altered appearance becomes too striking to be overlooked. During this period a state of fever is continually present; the pulse is very frequent; the skin hot; thirst urgent, and tongue coated; the urine is scanty and high coloured; there is flushing, occasional headach, and tendency to vomit; the severity of the pain may be less constant, or may undergo periodical exacerbations, generally occurring towards evening, or in the The sleep is disturbed, and accompanied night. by moaning and evident distress; or, in aggravated cases, interrupted by delirium. The symptomatic fever is, in fact, generally well marked; and it is worth your remembering that it may run so high as altogether to mask the local disease. I saw a case in Dorset street, in September last, where delirium was the prominent symptom, and this lesion of the intellect deprived the medical attendant of all information as to the suffering endured by the patient for several days, during which time the real nature of the complaint was not even suspected. Such are the early symptoms of the complaint, which in very acute cases are manifest to the patient or his friends: when the fever is less urgent, and a state of feverishness, loss of appetite and rest, are the general symptoms, the little patient is generally allowed to creep about, although unable to use the limb. If you are consulted at this period of the disorder, two or three weeks from the accession of the attack, you will perhaps be told that perspirations are beginning to be added to the fever, and that he has lost flesh considerably. On inquiry, the pain is referred to the hip about the trochanter to the groin and knee, sometimes as if passing through the joint, and occasionally extending lower down on the outside of the leg a few inches below the head of the fibula, and accurately defined. If you now proceed to examine the limb, the following will be found to be the phenomena:-

If the patient be in bed, he will generally be found lying with the thigh fixed on the pelvis, and inclined towards the mesial line. The comparative length of the two limbs is a point not easily ascertained, on account of the bent position of the one affected; but one knee has sometimes appeared to project more than the other. The loss of power in the muscles about the hip is evident when he alters the position of the In the acute form the disease commences rather limb, for you will observe he accomplishes this suddenly, and without any previous indisposition object by insinuating the opposite foot under the observable by the patient. He may retire to rest ankle of the diseased side, and lifting it to the after the enjoyment of exercise, without even the place intended for it. Pressure, even lightly feeling of fatigue, and be disturbed during the made, on the trochanter or groin, causes pain,

In the erect posture there is complete inability to sustain the weight of the body on the affected limb; the knee is advanced, the toe resting on the ground, and the heel supported against the front of the other leg. The pelvis is obviously lower on the affected side; the nates of that side is flattened, and sinks; the obliquity of its lower margin presenting a marked contrast to the horizontal level of the sound one; the muscles of the affected leg are wasted in a remarkable degree. If, while standing before you, he changes his position to either side, or is lifted to the right or left, the sound leg is at once placed in the line of the centre of gravity, to support him; but the affected limb either remains as it was before, or is carried after its fellow by the patient, who instinctively raises it by one or both hands, and places it in its new position.

So far, gentlemen, the phenomena resemble those of acute disease of the hip-joint so closely, that you might easily suppose I had been describing the latter disease; but a more searching inspection will develope other phenomena capable of correcting the first impression, and suggesting a more precise view of the nature of the com-

plaint.

In the recumbent position, for instance, the limb is generally found flexed upon the pelvis. Now, this is not the position usually adopted by patients in the early stage of morbus coxæ; and at the period when it does generally occur, the articulating surfaces are engaged to an extent to render the least motion of the head of the femur in the acetabulum a source of severe pain. In the disease we are now considering, if you take the limb so gently in your hand as not to call into action the muscles which connect it with the trunk, and then press it firmly into the acetabulum, no complaint is made. You can, with the same precautions, cause it to perform all the motions of flexion and extension, adduction and abduction, without the slightest uneasiness to the patient. These are movements which, in true morbus coxæ, would be agonizing in that stage when the limb is found to be habitually in the flexed position.

You will, no doubt, meet with cases of the scrofulous disease of the hip-joint, in which these passive movements can, in the early stages, be performed without any remarkable expression of pain; and, therefore, this test, taken singly, loses much of its value. Taken, however, in combination with that which I am next to mention, it will assist materially in the inquiry. If, while you cause the limb to perform those passive motions of adduction, abduction, flexion, and extension, you fix your eye upon the anterior superior spinous process of the ilium, you will perceive that this bony prominence remains at rest while the plays freely in the acetabulum. Now observe what takes place in the genuine hip case, when Every movement of the femur is accompanied by which is emaciated at the nates, calf of the leg,

and this pain occasionally extends as far as the | a corresponding change of position of the anterior spinous process of the ilium; the pelvis moves with the femur; and both together now constitute an angular lever, the fulcrum of which is at the acetabulum of the sound side, and the motions of which are performed on the head of the sound thigh-bone. This symptom of inflamed hip-joint has not, I believe, been before described; and I have looked carefully into authors with this view since I first observed it. I have examined a vast number of cases of hip disease, and have not yet met with an exception to the rule of its occur-This movement of the pelvis with every motion of the femur, in morbus coxæ, will explain certain cases where little or no pain is complained of by the patient, the motion in many of those instances being only apparent as regards the joint, and the deception being occasioned in the manner I describe.

> You can render this fixity of the hip in morbus coxæ more manifest by the following manœuvre:-Place the patient on his back; take one of his ankles in each of your hands, and, while you separate the limbs as far as they can go, observe accurately the two fixed points of the pelvis-the spinous processes of the ilium. You will observe the femur of the healthy side plays freely in its socket; and further, the limb is abducted without any change in the direction of the On the other hand, the diseased limb carfoot. ries with it the pelvis; and the latter not only follows it, but is rotated, together with the spine, towards the opposite thigh, in such a manner that the foot is no longer directed forwards, but is inclined towards the middle line of the body. It is difficult to describe this contortion; but as you have witnessed it in both the hip cases now in the hospital, you require no further aid to understand it. In hip-joint disease, in fine, motion of every kind, active and passive, is a source of pain; while in osteitis of the upper end of the femur, although the patient is in the early stage incapable of moving the limb, no pain is experienced when this motion is accomplished by another.

The rationale of these opposite conditions is, I apprehend, to be sought for in the muscles of the parts. In the one case a tonic contraction of the muscles connecting the pelvis and femur is set up, as it were, to maintain the repose of the joint, and prevent the irritation inseparable from its disturbance. In the other case every movement which is painful is caused by the traction of the inflamed periosteum and tendinous attachments adjoining it, when the muscles are called into action. A state of the muscles therefore exists totally different from the former, and is more allied to their powerless condition in acute muscular rheumatism. Passive motion, is in such cases, freely permitted, for the same reason which prevents every active effort being attemptfemur moves, and that the head of the latter ed, namely, the muscular action is a source of pain.

If you now seek for diagnostic marks in the this manipulation is performed by the surgeon. erect posture, you will observe that the limb,

and lower part of the thigh, presents at its upper third a remarkable expansion; a sudden enlargement occurs here, which gives this portion of the limb a conical figure, the base being placed towards the hip-joint. This swelling is firm to the touch, and is evidently deep-seated; it is, in fact, enlargement and thickening of the bone

and its coverings. The observations already made with respect to the movement of the thigh-bone independent of the pelvis, in the recumbent position, are equally applicable to the erect posture. In the hip case, on the contrary, if you try to extend the thigh on the pelvis, while the patient stands erect, you will observe the pelvis moving backwards every time, and the lumbar spine more curved at the same instant, to accommodate it-

self to the other parts.

You will by these means have now acquired positive and negative evidence on which to rest your opinion of the nature of the case. You will have, on the one hand, the existence of a visible and palpable swelling of the upper third of the femar, which marks the existence or actual disease of that bone; and, on the other, you will have ascertained that passive motion can be performed without pain, and independent of the pelvis, to a degree inconsistent with the history of hip-joint disease. Much patience will, however, be required in examining the parts before an opinion is pronounced. Sir B. Brodie, whose tact in the discovery of obscure disease is acknowledged, and whose experience in this class of diseases is perhaps unequalled, expresses himself forcibly on the insidiousness of complaints about the hip-joint. In the present inquiry it is obvious that the evidence by which we are enabled to distinguish the disease of a bone in the vicinity of other joints is in a great measure absent here. If the the lower end of the femur be enlarged, and pain in the knee be complained of, we are led to the real nature of the complaint by the obvious disproportion between the femur and tibia; but when the upper end of the bone is engaged, all comparison is prevented—in the first place, by its being articulated with a flat bone; and secondly, by the depth at which it lies, as well as the thickness and increasing size of its coverings at this part.

The first stage of the disease, to which the foregoing observations apply will generally last some weeks, differing in this respect according

to the acuteness of the attack.

The second stage is marked by the occurrence of a more irregular fever, preceded by slight rigors, and ending, though not constantly, in perspiration. The countenance acquires an anxious and haggard expression, such as you observe to occur in hectic fever, and the hair has the moist upon you, that the states of this organ will neces- cuitous, that you cannot readily trace them to

sarily depend on the condition of internal parts, especially of the digestive tube, to render it necessary to repeat, on this occasion, that, taken as a symptom, no connexion can be established between its various appearances and the existence of any so-called surgical disease.

The local phenomena will, at this period, have undergone some modification. The swelling has increased, and some portion of the integuments have become more prominent, or have acquired a blush of inflammation. Here you may generally expect the formation of matter, although there is neither swelling nor fluctuation in a degree analogous to what occurs in suppuration depending on the soft parts alone. The patient remarks, that just when on the point of falling asleep, he is disturbed by twitching and starting of the affected limb, and his rest is sometimes

altogether broken in this manner.

At length the matter is evacuated, either spontaneously or by the assistance of the surgeon, and a remarkable calm ensues. The pain in the hip, groin, and knee, is mitigated; the rest is restored; the fever abates, and the perspirations cease. The appetite revives under this favourable respite from suffering, and the countenance begins to improve, although the pulse may retain its frequency. The inflammation having by this time in a great measure exhausted itself in the organic changes effected in the bone, as well as in the suppuration in the adjacent parts, the morbid sensibility of the attachments of the muscles abates, and the patient begins gradually to be capable of moving the limb to a certain extent without pain. Although the comparative freedom from pain, and capability of some degree of active motion, characterize this second stage of the complaint, the position of the limb, when at rest, is nearly the same as at first. is flexed on the pelvis, and the latter is found to be still awry, the ribs and ilium being closer on this side than on the other. The muscles appear to be more at ease in this posture; but, unlike what occurs in the inflammatory stage, they are now capable of moving the limb to a nearly straight position by their own unassisted powers. During the progress to the third stage, occasional accessions of fever and pain are to be expected. The pain is to be referred to the same points—namely, the hip, groin, front of the knee, or directly through the joint. I have heard the same person complain at one time of the outside of the knee and upper part of the leg, and at another refer it to the situation of the inner condyle. These exacerbations are sometimes the forerunners of fresh formations of matter; and, when this is the case, are generally relieved by its exit. They may, however, pass off without this result, especially if a few leeches have been and stringy appearance of that state. The skin applied. When new abscesses occur, the place is generally hot, and sometimes dry, sometimes of pointing is most frequently on the outside of perspiring; the pulse ranging from 112 to 120; the limb, in the neighbourhood of the great trothe urine occasionally depositing the lithates and chanter; although I have frequently seen them purpurates. The tongue may be coated, yet flo- at the back of the thigh, below the nates. The rid at its edge; but I have too often impressed fistulæare, for the most part, so indirect and cir-

The bulk of the swelling is | their termination. at this time found to be increased; the trochanter being also enlarged in all directions, will appear to ascend higher on the ilium than in the natural state. The remainder of the limb being more emaciated, increases the appearance of disproportion between the upper and middle portions of the bone. The integuments of the whole limb are sometimes thickly covered by a long fine hair, such as is occasionally seen in diseases of a marasmal character. The sound limb may exhibit a similar growth, but in much slighter

If you try the effects of passive motion at this period, you will find that although flexion of the thigh on the pelvis is as extensive as before, you cannot now extend the limb in an equal degree. The flexed position maintained by the patient, in order to relax the muscles inserted into parts engaged in the morbid action, has now become habitual; partly owing to a contracted or shortened state of those muscles, in consequence of their long-continued unnatural position, and partly to a mechanical obstacle to extension presented by the increased growth of the femur coming in contact with the brim of the acetabu-Abduction is nearly as free as in the early stage, but adduction appears to meet also with a firm resistance. The sudden check experienced is easily interpreted by the surgeon, who remembers the hypertrophy of the bone at this part. Some pain is occasionally experienced at the moment when the solid obstacle to adduction is perceived, but it is slight, and referred by the patient to the part struck alone, and not to those distant parts which suffer by sympathy or nervous communication. I must observe, that I have seen a case in which the period occupied in other instances by these changes has passed over without any formation of matter or opening in the integuments.

The third stage of this affection may be said to comprise the period in which the curative process is in progress; the nature of the changes included in this effort of nature, depending, of course, on the degree of injury inflicted by the violence of the primary disease. If many portions of the bone have lost their vitality, their separation from the healthy parts is to be accomplished; and other organic alterations, of a kind not so easily repaired, must have undergone a favourable change before the patient is restored to health. It is in this stage that the powers of the constitution are put to the severest test, and that the disposition to tubercular disease is most likely to be developed.

During this stage the fistulous openings continue to discharge pus. The qualities of this fluid will be found to differ materially at different times, and even at the same time from differmatter was secreted from the remainder. When come to discuss the treatment of the disease. this has occurred, without being followed by any

exfoliation, and has, after a long interval, gradually changed into a more healthy discharge, I have been led to suspect that caries of that portion of the bone corresponding to this peculiar secretion had existed; but as we are not in possession of evidence by which we can determine the question of absorption of dead bone, I cannot assert that the unfavourable condition of the fistula may not have depended on the presence of a loose piece of bone which had gradually disappeared, and not on ulceration properly so called.

The alteration in the discharge alluded to, is sometimes accompanied by increase of swelling and tenderness about the orifice, as well as by some degree of symptomatic fever. It has occasionally happened that these symptoms have been succeeded by the discharge of a portion of sequestrum, generally small in size, and more porous than those which you see eliminated from necrosis in the middle of a long bone. You will, on some occasions observe this exfoliation to be announced, not by any alteration in the quality of the discharge, but by its total cessation for a few days; and I think I have remarked that the pain and local irritation is then more severe than in the former case.

You may meet with a case where, after the formation of an abscess, the opening will remain solitary for several months; and if the probe be used to test the condition of the bone, you may be foiled by the length and curve of the fistulous canal, and probably obtain no satisfactory information as to its actual state. The swelling may remain undiminished, the only change being that it is less tender on pressure, and that the patient has acquired more power over the limb. The constitutional symptoms, in such a case, may be as stationary as the local complaint. There may be no sweats, nor accessions of fever; but although the appetite and rest are nearly natural, there is not much progressive improvement in the appearance of the invalid. As there may not, during this time, have been any exfoliation, there is no certainty that such a case is one of necrosis; and as I have not yet had the means of ascertaining the anatomical characters of a case presenting exactly the symptoms I have described, I merely mention the facts, and reserve their explanation to another occasion, when an opportunity shall have occurred of tracing the history to its termination.

The cases which I have seen sink in this stage have not done so under the influence of this disease alone. They have died of pulmonary disease. Those which have evinced sufficient vital powers to sustain, and, it may be, to subdue, the force and tediousness of the complaint, are yet under observation. Both these classes include cases in which treatment has ent orifices. I have seen it remain ill-coloured been either ineffectual or untried. Another class, and feetid for a considerable time, from one or in which the attack has yielded to early and two of these openings, while a more healthy active remedies, remains to be spoken of when we

This, gentlemen, is nearly the history of those

cases which commence in the acute form, and bear, in their phenomena, the closest analogy to inflammation, with necrosis of the long bones, modified, of course, by its occurrence in a part more highly organized, and resisting, therefore, to a certain extent, the destructive power of severe inflammatory action, which, in more compact osseous tissues, occasions the complete and exten-

sive death of the parts.

The cases to which I have hitherto drawn your attention, are, I believe, instances of genuine osteitis, by which I apprehend must be understood inflammation of the cellular tissue by which the bone is pervaded throughout. In those cases, not only the periosteum, but the cellular tissue connecting that membrane with the bone, and that which conveys the vascular nett-work to the interior, become the medium for conducting this formidable disease to the spongy tissue. There are, however, instances to be met with, in which the periosteal covering of the bone is alone affected; but as the latter form of the disease does not, as far as I have observed, suggest a different mode of treatment, I do not, on this occasion, deem it necessary to detain you by a separate consideration of the periostitis of the upper third

I may, however, remark, in passing, that the swelling is never so great when the periosteum alone is engaged, although the symptoms which simulate so closely disease of the hip-joint, depending, as they do, on the condition of parts connected with the surface of the bone, will generally be present in an equal degree.—London

Medical Gazette.

ANTI-NEURALGIC MIXTURE OF Dr. Liegard, of Caen.

R. Aquæ Lactucæ,
Aquæ Lauro-cerasi, aa 3ij.*
Extr. Lactucæ,† gr. xv.
Extr. Belladonnæ, gr. vj.
Extr. Hyoscyami, gr. viij.
Extr. Stramonii, gr. x.

POTION, BY THE SAME.

R. Aquæ Lactucæ, 3j.
Aquæ Lauro-cerasi, 3ij.
Extr. Lactucæ, gr. xij.
Extr. Belladonnæ, gr. vj.
Extr. Stramonii, gr. viij.
Extr. Hyoscyami, gr. x.
Syr. Valerianæ, 3j.

The potion is to be taken in the dose of a teaspoonful once, twice, or thrice a day; the dose of the mixture is from five to six drops in sugarand-water, when taken internally, and a teaspoonful when used externally. These two methods of administration are employed at the same time.—Ibid, from Gazette des Hôpitaux.

* As the French gros contains seventy-two grains, it would be more exact to translate this quantity by gr. exliv.

Large Doses of Active Remedies.—M. Forget, professor in the medical school at Strasburgh, has lately published, in the Bulletin de Thérapeutique, several interesting cases, showing the tolerance of some remedies in extraordinary doses.

CASE I. Tartar emetic.—A robust butcher, aged forty, labouring under acute articular rheumatism, took tartar emetic in a potion, first in the dose of eight grains, then ten, fifteen, twenty, thirty, forty, sixty, and seventy-two grains, (a drachm,) and this without any disorder of the intestinal canal, or any other bad symptom. The tongue was moist, but whitish; the patient always ate quarter diet, but became disgusted with the potion, and it was discontinued. Thus in the space of ten days, he took, without inconvenience, about three drachms of tartar emetic. Nevertheless he had a relapse of the rheumatism, but was cured by colchicum wine.

Case II. Pomegranate root bark.—A girl of four-and-twenty, fair, and of a lymphatic temperament, had suffered from tænia since her childhood, and frequently passed fragments of the worm in her stools. She took two ounces of the bruised bark of the pomegranate root boiled in two pounds of water, at thrice, with half an hour's interval between the doses, but without effect. The dose was now increased to three ounces, and two tapeworms were expelled; so that in two days, and without any abdominal disturbance, the patient took the decoction of five ounces of the bark of pomegranate root.

CASE III. Ioduret of starch - Dr. Buchanan,

of Glasgow, in 1836, published in the London Medical Gazette, some remarks on the exhibition of this substance in the enormous dose of seventytwo grains and more, without any bad symptom.

M. Forget tried this remedy on a youth of seventeen, labouring under lymphatic turgescence, with ganglionic tumours of the parotids, scrofulous ulcers, &c. The iodine was first given in the dose of twenty-four grains, with an ounce of starch. The iodine being triturated with a glass of water, was carefully mixed with the starch, and being then diluted with a pound of decoction of rice, was taken in the course of the day, in four doses. The ioduret of starch was borne perfectly well, and the dose was increased to an ounce and a half, two ounces, (containing forty-eight grains of iodine,) and two ounces and a half. The fæces were of their regular colour, and the urine, when treated with nitric acid, gave a yellow tint to white paper, or a deep blue when the paper was previously covered with starch: hence it appeared that the ioduret of starch was wholly absorbed. dose was increased to three, and then to four ounces, (containing ninety-six grains of iodine,) but without lessening the disease. The patient now became disgusted with the remedy, and it was discontinued. In forty-eight days he took one hundred and thirty-nine ounces, or nearly nine pounds of ioduret of starch, containing 3336 grains, or nearly six ounces of iodine; being nearly sixty-six grains a day of this active substance.—Id., Ibid.

[†] In the original it is Extrait de Thridace; but as thridace is itself an extract of lettuce, this is probably an error.